

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A method for treatment of gas exiting the anode side (301) of a solid oxide fuel cell stack (1) ~~fuelled~~ fueled with a carbon containing fuel (100) in a power producing process, ~~characterized in that~~ wherein the anode gas and cathode gas are kept separated by a seal system in the SOFC stack (4), ~~wherein and that the main part majority~~ of the H<sub>2</sub> and CO in the anode exhaust (351) is separated from the CO<sub>2</sub> in said exhaust (301) by a separation process based on H<sub>2</sub> selective membranes (350), and wherein the membrane or an included catalyst has water-gas-shift activity and catalyses the water-gas-shift reaction.

Claim 2 (currently amended): A method according to claim 1, ~~characterized in that~~ wherein the anode exhaust (359) is treated such that ~~most of~~ the CO<sub>2</sub> is not emitted to the atmosphere.

Claim 3 (currently amended): A method according to claim 1, ~~characterized in that~~ wherein steam (361) is injected on the permeate side of the hydrogen selective membranes (350).

Claim 4 (currently amended): A method according to claim 1, ~~characterized in that~~ wherein the recovered H<sub>2</sub> (355) is fed back to the main SOFC stack (1) and used as fuel.

Claim 5 (withdrawn): A method according to claim 1, characterized in the recovered H<sub>2</sub> (355) is used to heat the oxygen depleted air (206) entering the expander (207).

Claim 6 (withdrawn): A method according to claim 1, characterized in that the recovered H<sub>2</sub> (355) is used to heat the air entering the SOFC stack (205).

Claim 7 (withdrawn): A method according to claim 1, characterized in that the recovered H<sub>2</sub> (355) is exported as a sales product.

Claim 8 (withdrawn): A method according to claim 1, characterised in that recovered H<sub>2</sub> (355) is fed to the desulphurisation unit (101) to provide necessary hydrogen for hydrodesulphurisation.

Claim 9 (withdrawn): A method for treatment of gas exiting the anode side (301) of a solid oxide fuel cell stack (1) fuelled with a carbon containing fuel (100) in a power producing process,

characterised in that the anode gas and cathode gas are kept separated by a seal system in the SOFC stack (4), that the main part of the H<sub>2</sub> and CO in the anode exhaust (301) is separated from the CO<sub>2</sub> in said exhaust by a separation process based on compressing (312), drying (319) and cooling (321) to a pressure and temperature where most of the CO<sub>2</sub> is in liquid form (322) and subsequently is separated from the H<sub>2</sub> and CO in a conventional gravity based separation process (323).

Claim 10 (withdrawn): A method according to claim 9, characterised in that the anode exhaust (301) is treated such that most of the CO<sub>2</sub> is not emitted to the atmosphere.

Claim 11 (withdrawn): A method according to claim 9, characterised in that the recovered H<sub>2</sub> and CO (329) is fed back to the main SOFC stack (1) and used as fuel

Claim 12 (withdrawn): A method according to claim 9,  
characterised in that the recovered H<sub>2</sub> and CO (329) is removed in order to avoid  
build-up of gases which are non-condensable and non-combustible.

Claim 13 (withdrawn): A method according to claim 9,  
characterised in that the recovered H<sub>2</sub> and CO (329) is fed to the desulphurisation  
unit (101) to provide the necessary hydrogen for hydrodesulphurisation.